

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A method for manufacturing packages, comprising providing a tubular first package part of a sheet of thermoplastic coated packaging material including at least one layer of an induction heatable material, the first package part having a sealed first joint between two mutually opposing edge sections of the sheet, joining together the first package part and a second package part, a second joint being formed between the first and the second package part, the first and the second joint intersecting each other, ~~wherein further comprising~~ arranging induction heating means including at least two conductors extending along each other, so that the conductors extend along the second joint, and sealing the second joint by feeding an inducing current through the induction heating means~~[[,]]~~ such that the inducing current being is conducted by along the second joint by the at least two conductors and is guided by the at least two conductors such that one of the at least two conductors guides the inducing current in one specific direction and the other of the at least two conductors guides the inducing current in another specific along the second joint in opposite direction, directions in said at least two conductors and a sealed subjoint of the second joint is achieved by each one of said at least two conductors.

2. (Previously Presented) A method according to claim 1, wherein arranging the induction heating means comprises providing the conductors on the outside of the first package part.

3. (Previously Presented) A method according to claim 1, wherein arranging the induction heating means comprises providing the conductors on the inside of the first package part.

4. (Previously Presented) A method according to claim 1, further comprising applying a compressive load on the second joint during the sealing of the same.

5. (Previously Presented) A method according to claim 1, wherein sealing the second joint comprises inducing a heating current in said layer of the induction heatable material, said layer comprising a metal foil.

6. (Previously Presented) A method according to claim 1, wherein the first joint of the first package part is formed between said two edge sections being overlapping.

7. (Previously Presented) A method according to claim 1, wherein joining together the first and the second package part comprises positioning the first and second package parts so that the second package part protrudes from an open end of the tubular first package part, and wherein arranging the induction heating means comprises providing the conductors circumferentially along the first package part.

8. (Previously Presented) A method according to claim 1, wherein joining together the first and the second package part comprises positioning the first and second package parts so that the second package part protrudes from an opening in a wall portion of the first package part, and wherein arranging the induction heating means comprises providing the conductors circumferentially around the opening.

9. (Previously Presented) A method according to claim 7, wherein joining together the first and the second package part comprises slipping the first package part over the second package part.

10. (Currently Amended) A device for manufacturing packages, comprising means for providing a tubular first package part of a sheet of thermoplastic coated packaging material including at least one layer of an induction heatable material, the first package part having a sealed first joint between two mutually opposing edge sections of the sheet,

means for joining together the first package part and a second package part, a second joint being formed between the first and the second package part, the first and the second joint intersecting each other,

current supply means for feeding an inducing current, ~~wherein it further~~
comprises

induction heating means for sealing the second joint, the induction heating means being connected to the current supply means and including at least two

conductors extending along each other, ~~which are arranged to extend along the second joint~~

the at least two conductors being constructed and connected to the current supply means such that one of the at least two conductors conducts the inducing current along the second joint in one specific direction and the other one of the at least two conductors conducts and conduct the inducing current along the second joint in another specific opposite direction, and the device positioning the induction heating means during operation to arrange the at least two conductors along the second joint so that each one of the at least two conductors produces a sealed subjoint of the second joint ~~the second joint in opposite directions in said at least two conductors.~~

11. (Currently Amended) A device for manufacturing packages, comprising induction heating means including at least two annular conductors extending along each other and being arranged to be connected to a current supply means, wherein ~~the conductors are arranged to conduct an~~ device for manufacturing packages operates to position the induction heating means to arrange the at least two conductors along a joint so that when the at least two conductors are connected to the current supply means which supplies inducing current, a first one of the at least two conductors conducts the inducing current in one specific direction between opposite ends of the first conductor to achieve a sealed subjoint of the joint and a second one of the at least two conductors conducts the inducing current in another specific in opposite direction between opposite ends of the second conductor to achieve another sealed subjoint of the joint ~~directions.~~

12. (Currently Amended) A device according to claim 11, wherein the ~~induction heating means is arranged to seal a second~~ the joint is a second joint formed between a tubular first package part of a sheet of thermoplastic coated packaging material including at least one layer of an induction heatable material, the first package part having a sealed first joint between two mutually opposing edge sections of the sheet, and a second package part, the first and the second joint intersecting each other.

13. (Previously Presented) A device according to claim 10, wherein the conductors are arranged to be provided on the outside of the first package part.

14. (Previously Presented) A device according to claim 13, wherein the induction heating means is formed with a hole or recess for receiving portions of the first and second package parts forming the second joint, the conductors being arranged along a wall enclosing the hole or recess.

15. (Previously Presented) A device according to claim 14, wherein a circumference of the hole or recess is essentially equal to an outer circumference of the package parts along the second joint, the wall enclosing the hole or recess exerting a compressive load on the second joint during the sealing of the same.

16. (Previously Presented) A device according to claim 14, wherein the hole or recess is frusto conical for receiving said second package part being tapered in a

direction from the second joint, a smallest circumference of the hole or recess being smaller than an outer circumference of the package parts along the second joint, the wall enclosing the hole or recess exerting a compressive load on the second joint during the sealing of the same.

17. (Previously Presented) A device according to claim 13, wherein an inner circumference of each of the conductors is essentially equal to an outer circumference of the package parts along the second joint.

18. (Previously Presented) A device according to claim 13, wherein the induction heating means is formed with a recess or hole for receiving at least a portion of the second package part, the conductors being arranged in one and the same plane, one of them enclosing another, and surrounding the recess or hole.

19. (Previously Presented) A device according to claim 10, wherein the conductors are arranged to be provided on the inside of the first package part.

20. (Previously Presented) A device according to claim 19, wherein the induction heating means includes a support element arranged to be surrounded by portions of the first and second package parts forming the second joint, the conductors being arranged along a wall on, and enclosing, the support element, the wall exerting a compressive load on the second joint during the sealing of the same.

21. (Previously Presented) A device according to claim 19, wherein an outer circumference of each of the conductors is essentially equal to an inner circumference of the package parts along the second joint.

22. (Previously Presented) A device according to claim 10, wherein the conductors have essentially uniform cross-sections.

23. (Previously Presented) A device according to claim 10, wherein the conductors have essentially the same dimensions.

24. (Previously Presented) A device according to claim 10, wherein each of the conductors forms a circumferential and incomplete current path along the second joint.

25. (Previously Presented) A device according to claim 10, wherein the conductors are connected to each other at a first end and to the current supply means at a second end.

26. (Previously Presented) A device according to claim 25, wherein each of the conductors has such a shape that the first end is arranged in the vicinity of the second end.

27. (Previously Presented) A device according to claim 10, wherein the induction heating means is arranged to induce a heating current in said layer of the induction heatable material, said layer comprising a metal foil.

28. (Previously Presented) A device according to claim 10, wherein the first joint of the first package part is formed between said two edge sections being overlapping.

29. (Previously Presented) A device according to claim 10, wherein the means for joining together the first and the second package part is arranged to position the first and second package parts so that the second package part protrudes from an open end of the tubular first package part, and wherein the conductors are arranged to be provided circumferentially along the first package part.

30. (Previously Presented) A device according to claim 10, wherein the means for joining together the first and the second package part is arranged to position the first and second package parts so that the second package part protrudes from an opening in a wall portion of the first package part, and wherein the conductors are arranged to be provided circumferentially around the opening.

31. (Previously Presented) A device according to claim 29, wherein the means for joining the first and the second package part is arranged to slip the first package part over the second package part.